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SEWAGE AND WATER WORKS CONSTRUCTION

Federal Water Pollution Control Administration
Washington, D. C.

1966

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16

SEWAGE AND WATER WORKS CONSTRUCTION 1966

U.S. DEPARTMENT OF THE INTERIOR
Federal Water Pollution Control Administration
Washington, D.C. 20242

I

Related Publications

Sewage Treatment Works Contract Awards, 1952–1957
Public Health Service Publication No. 633

Sewage and Water Works Construction, 1957
Public Health Service Publication No. 608

Sewage and Water Works Construction, 1958
Public Health Service Publication No. 673

Sewage and Water Works Construction, 1959 edition
Public Health Service Publication No. 758

Sewage and Water Works Construction, 1960 edition
Public Health Service Publication No. 758

Sewage and Water Works Construction, 1961 edition
Public Health Service Publication No. 758

Sewage and Water Works Construction, 1962 edition
Public Health Service Publication No. 758

Sewage and Water Works Construction, 1963 edition
Public Health Service Publication No. 758

Sewage and Water Works Construction, 1964 edition
Public Health Service Publication No. 758

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PREFACE

This annual report of "Sewage and Water Works Construction 1966" is published as one part of the basic data program required and authorized in Public Law 660 (as amended by Public Law 87–88), the Federal Water Pollution Control Act.

The data published herein provide a continuing and ready source of information and reference as to how successfully the national needs in municipal water supply and pollution control are being met through construction of the necessary physical facilities.

This publication also establishes important year-to-year cost trends in the national economic picture in the three types of public works construction involved. Such data are valuable not only to Federal, State and local government authorities and officials responsible for providing water supplies and for controlling pollution, but are also valuable to the building and contracting trades and to the engineering profession.

This report was prepared by Kenneth H. Jenkins, Chief Statistician, Elsie M. Gibson, Statistical Assistant, Florence G. Simmons, Statistical Assistant, under the direction of James H. McDermott, Director and Chief of the Division of Pollution Surveillance, Federal Water Pollution Control Administration.

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SECTION 1—GENERAL PRESENTATION OF SEWAGE AND WATERWORKS CONTRACT AWARDS

A. CONTRACT AWARDS—1966

Contracts awarded in the sewage and waterworks field in calendar year 1966 amounted to almost $1.8 billion, broken down as shown below in millions.

Sewage treatment	$553.1
Collecting sewers	399.4
Waterworks	818.8
Total	1,771.3

Contracts for waterworks were 16 percent above 1965 and the highest on record. Sewage treatment contracts were 6 percent over the previous year and those contracts for collecting sewers were up 12 percent.

The total value of all three categories is about 11 percent above 1965 and is the highest figure on record. On a constant dollar basis (1957-59), the increase from 1965 was 6.4 percent.

Each of the above totals is based upon an identified and an apportioned figure. The identified contracts are those for which the descriptive information available clearly states a single type of construction. Those contracts that cover more than a single type are called "combination" contracts. These combination contracts are then apportioned to the sewage treatment works, collecting sewers, and waterworks categories on the basis of known national experience in each of these.

B. METHOD OF DATA COLLECTION

The contract award data presented in this publication for the year 1966 result from the careful examination of over 100,000 contract notifications in the sewage and waterworks construction and related fields. All notifications of similar contracts awarded in the same geographical area are checked to reduce the chance of duplication. Certain contracts, primarily those covering sewage treatment plants, are checked and verified by the various State water pollution control agencies.

The data on which this report is based were obtained from:

1. F. W. Dodge Corporation, daily reports on construction in the sewage and waterworks fields in the 38 Eastern States and southern California.
2. Various construction news periodicals, such as, *Construction News Bulletin*, *Pacific Architect and Builder*, *Rocky Mountain Construction*, *Southwest Builder and Contractor*, *Portland* and *Seattle Daily Journals of Commerce*, *Daily Pacific Builder*, *Denver Daily Journal* and *Construction News Daily*.

Practically all of the information for the 38 Eastern States is obtained from daily reports of the F. W. Dodge Corp.

The data presented are composed of contracts awarded by municipalities, special districts, other governmental bodies, and various institutions, resorts, recreation centers, etc. A few contracts are included for industries where the cost of such facilities can be readily identified, and where it is possible to ascertain that the facilities are primarily for the disposal of sanitary wastes or for domestic waterworks facilities.

TABLE 1.—*Annual contract awards—sewage treatment works, collecting sewers, and waterworks—1952–66*

[Millions of dollars]

Year	Sewage treatment		Collecting sewers		Waterworks		Total	
	Actual	1957–59	Actual	1957–59	Actual	1957–59	Actual	1957–59
1952	137	178	225	296	227	303	589	777
1953	187	231	286	353	283	358	756	942
1954	229	276	244	294	293	353	766	923
1955	201	232	301	345	394	453	896	1,030
1956	354	385	305	331	441	485	1,100	1,201
1957	351	362	247	254	457	481	1,055	1,097
1958	389	385	310	310	419	419	1,118	1,114
1959	349	336	330	320	504	480	1,189	1,136
1960	359	339	359	339	645	597	1,363	1,275
1961	449	419	380	352	573	516	1,402	1,287
1962	545	505	320	291	507	441	1,373	1,237
1963	679	612	405	358	590	500	1,674	1,470
1964	514	459	396	344	654	532	1,564	1,335
1965	522	458	356	304	721	563	1,599	1,325
1966	553	469	399	330	819	611	1,771	1,410

NOTES:

1. Constant dollars on a 1957–59 base were computed as follows: Sewers from PHS Sewer Construction Cost Index (PHS Publication 1132); sewage treatment a composite 45 percent sewers (Publication 1132) and 55 percent PHS Sewage Treatment Plant Construction Cost Index (PHS Publication 1069); water from *Engineering News-Record* construction cost index changed to a 1957–59 base.

2. The Public Health Service sewage treatment data prior to 1957 are composed of identified contracts only. Beginning with 1957, the figures include an amount apportioned to sewage treatment works from the "combination" contracts.

3. Data on collecting sewers prior to 1957 are obtained by subtracting Public Health Service sewage treatment data from the U.S. Department of Commerce sewer data which includes sanitary and storm sewerage systems as well as sewage treatment works. Beginning with 1957, the data for collecting sewers were assembled by the Public Health Service and do not include storm sewers.

4. The waterworks data prior to 1957 are based on records maintained by the U.S. Department of Commerce. Beginning with 1957, data were obtained by the Public Health Service.

TABLE 2.—*Monthly contract awards—sewage treatment works, collecting sewers, and waterworks—1966*

[Million of dollars]

Month	Sewage treatment		Collecting sewers		Waterworks		Total	
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative
January	56.3	56.3	21.9	21.9	43	43.2	121.4	121.4
February	28.2	84.5	22.8	44.7	35.8	79.0	86.8	208.2
March	39.0	123.5	43.3	88.0	77.6	156.6	159.9	368.1
April	65.7	189.2	31.0	119.0	57.5	214.1	154.2	522.3
May	35.7	224.9	30.6	149.6	59.6	273.7	125.9	648.2
June	52.9	227.8	43.1	192.7	69.3	343.0	165.3	763.5
July	47.8	325.6	29.7	222.4	84.7	427.7	162.2	975.7
August	44.3	369.9	46.2	268.6	53.7	481.4	144.2	1119.9
September	55.4	425.3	31.0	299.6	155.5	636.9	241.9	1361.8
October	49.8	475.1	34.9	334.5	75.6	712.5	160.3	1522.1
November	32.4	507.5	33.4	367.9	47.6	760.1	113.4	1635.5
December	45.6	553.1	31.5	399.4	58.7	818.8	135.8	1771.3

NOTE: Differences in totals may be due to rounding.

TABLE 3.—*1966 contract awards by States*

State	Total		Sewage treatment		Sewers		Water		Combinations	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	108	21,768,236	13	3,560,476	19	2,007,845	71	15,355,426	5	984,489
Alaska	25	4,110,236	2	92,950	7	555,700	11	2,941,900	5	519,629
Arizona	89	12,009,599	7	2,822,418	35	4,387,847	46	4,577,497	1	221,837
Arkansas	125	16,936,493	26	11,055,666	8	649,140	83	4,673,965	8	557,722
California	1,023	342,996,459	121	55,319,058	435	33,761,081	449	252,272,094	18	1,644,316
Colorado	121	21,246,303	28	7,315,667	25	778,043	62	12,176,650	6	975,943
Connecticut	159	29,453,660	18	12,501,253	105	12,564,287	34	4,248,790	2	139,330
Delaware	19	5,732,280	5	4,753,202	4	367,244	10	611,774		
District of Columbia	30	8,157,355	3	4,939,820	17	2,803,990	7	257,845	3	155,080
Florida	363	48,578,244	46	8,461,020	111	10,540,268	180	27,033,458	26	2,543,498
Georgia	175	23,139,870	32	8,304,472	35	3,894,749	95	9,871,722	13	1,068,927
Hawaii	6	4,769,663	6	4,769,663						
Idaho	29	1,746,999	10	587,539	7	163,033	7	318,770	5	677,647
Illinois	454	68,525,572	92	21,478,493	114	22,881,736	217	18,384,103	31	5,781,240
Indiana	235	38,059,950	35	11,528,038	80	9,119,200	104	16,948,739	7	463,973
Iowa	213	18,069,373	41	9,343,607	80	4,779,160	77	4,341,015	6	205,591
Kansas	248	23,320,048	32	10,776,744	116	5,243,556	99	7,262,261	1	39,104
Kentucky	211	27,154,784	26	3,407,395	73	6,750,777	104	15,615,804	8	1,380,838
Louisiana	259	47,438,387	23	10,683,747	57	12,373,174	163	23,091,247	16	1,290,219
Maine	33	6,636,341	8	5,662,567	12	278,887	12	669,843	1	25,440
Maryland	609	36,083,616	39	8,389,411	128	6,132,[illegible]	126	10,288,052	316	11,283,474
Massachusetts	345	31,211,137	27	8,131,230	110	9,430,957	198	12,237,388	10	1,405,522
Michigan	492	90,632,120	46	17,606,726	188	24,615,698	214	46,072,149	44	2,337,547
Minnesota	298	37,741,885	38	12,562,746	88	11,786,124	99	7,149,675	73	6,243,340
Mississippi	212	16,812,190	9	2,944,082	15	717,818	183	11,629,326	5	1,520,964
Missouri	348	63,720,981	51	40,270,540	94	5,831,473	188	10,115,185	15	1,503,783
Montana	31	3,503,083	8	1,336,210	7	558,926	15	1,377,532	1	230,415
Nebraska	222	10,027,590	49	3,692,926	97	3,676,234	65	2,257,394	11	401,036
Nevada	27	6,682,198	7	5,675,245	10	364,481	8	576,818	2	65,654
New Hampshire	37	4,926,461	2	3,265,594	9	544,061	25	1,086,394	1	30,412
New Jersey	335	36,076,639	43	11,959,475	112	8,674,042	166	11,321,463	14	4,121,659
New Mexico	37	7,704,713	8	3,934,160	2	96,559	23	1,647,514	4	2,026,480
New York	731	92,470,486	73	32,988,681	227	25,183,240	413	30,357,082	18	3,941,474
North Carolina	195	39,218,824	38	10,657,085	60	7,877,623	79	16,072,106	18	4,612,010
North Dakota	57	7,626,849	11	2,126,980	10	1,404,250	23	3,282,432	13	813,187
Ohio	580	73,260,903	56	25,091,494	205	20,280,082	302	22,052,486	28	5,836,842
Oklahoma	234	21,255,379	22	2,099,429	31	1,567,030	169	15,848,308	12	1,740,552
Oregon	175	22,164,505	22	6,277,623	80	10,312,840	66	5,160,986	7	413,156
Pennsylvania	562	69,151,025	68	18,768,578	217	32,480,935	247	13,411,246	30	4,481,266
Puerto Rico	23	4,091,431	6	1,254,800	1	20,470	16	3,396,161		
Rhode Island	39	5,992,052	7	1,098,456	9	1,628,087	23	3,265,509		
South Carolina	96	15,442,265	29	7,560,280	11	1,893,410	53	5,627,506	3	360,069
South Dakota	39	2,285,231	7	808,233	15	352,375	16	1,036,952	1	27,671
Tennessee	209	45,148,972	21	14,376,208	75	15,915,941	101	14,151,308	3	705,395
Texas	924	102,897,813	67	14,379,307	160	13,741,348	581	60,621,124	116	8,156,034
Utah	27	4,170,503	18	3,126,918	3	360,898	6	682,687		
Vermont	31	8,920,880	15	5,417,333	3	162,961	12	3,138,206	1	202,320
Virginia	238	39,208,212	43	14,148,457	93	6,676,961	86	17,158,388	16	1,284,406
Washington	276	44,054,536	39	15,164,450	102	14,248,167	127	12,934,452	8	1,707,467
West Virginia	60	6,267,501	7	2,176,872	5	101,651	47	3,766,104	1	222,874
Wisconsin	502	50,875,591	38	24,197,504	189	13,623,744	160	8,874,297	115	4,179,986
Wyoming	8	537,284					7	423,161	1	114,123
Total	11,924	1,771,253,317	1,488	518,850,957	3,714	374,108,537	5,675	789,062,284	1,047	88,571,539

TABLE 4.—*1966 contract awards (distributed) by States*

State	Total	Sewage treatment	Sewers	Water
Alabama	21,768,236	3,850,473	2,265,100	15,652,663
Alaska	4,110,236	293,992	703,582	3,112,662
Arizona	12,009,599	2,908,259	4,450,942	4,650,398
Arkansas	16,936,493	11,271,479	807,767	4,857,247
California	342,986,459	55,955,335	34,228,757	252,812,367
Colorado	21,246,303	7,693,313	1,055,621	12,497,369
Connecticut	29,453,660	12,555,168	12,903,915	4,294,577
Delaware	5,732,280	4,753,262	367,244	611,774
District of Columbia	8,157,355	5,000,065	2,848,280	309,010
Florida	48,578,244	9,445,239	11,263,690	27,869,315
Georgia	23,139,870	8,718,098	4,198,774	10,222,998
Hawaii	4,769,663	4,769,663		
Idaho	1,746,980	849,758	355,760	541,462
Illinois	68,525,572	23,715,573	24,526,036	20,283,963
Indiana	38,059,950	11,707,575	9,251,163	17,101,212
Iowa	18,660,373	9,423,162	4,837,634	4,408,577
Kansas	23,320,668	10,791,480	5,254,307	7,274,782
Kentucky	27,154,784	3,941,687	7,143,515	16,069,582
Louisiana	47,438,387	11,183,004	12,740,138	23,515,245
Maine	6,636,341	5,672,411	285,727	678,203
Maryland	36,093,616	12,755,607	9,341,925	13,996,084
Massachusetts	31,211,137	8,675,104	9,836,755	12,699,278
Michigan	90,632,120	18,511,252	25,280,543	46,840,325
Minnesota	37,741,885	14,978,638	13,561,855	9,201,392
Mississippi	16,812,190	3,532,627	1,150,410	12,129,153
Missouri	63,720,981	40,852,436	6,259,179	16,609,366
Montana	3,503,083	1,425,370	624,461	1,453,252
Nebraska	10,027,590	3,848,109	3,790,297	2,389,184
Nevada	6,682,198	5,700,650	383,154	598,394
New Hampshire	4,926,461	3,277,362	552,711	1,096,388
New Jersey	36,076,630	13,554,372	9,846,324	12,675,943
New Mexico	7,704,713	4,718,317	672,930	2,313,466
New York	92,470,486	34,513,854	26,304,283	31,652,349
North Carolina	39,218,824	12,441,725	9,189,371	17,587,728
North Dakota	7,626,849	2,441,647	1,635,537	3,549,665
Ohio	73,260,903	27,350,089	21,940,197	23,970,617
Oklahoma	21,255,379	2,772,944	2,062,078	16,420,357
Oregon	22,164,505	6,437,496	10,430,350	5,296,659
Pennsylvania	69,151,025	20,502,626	33,764,497	14,883,902
Puerto Rico	4,661,431	1,254,800	20,470	3,386,161
Rhode Island	5,992,052	1,098,456	1,628,087	3,265,509
South Carolina	15,442,265	7,702,712	1,991,093	5,748,460
South Dakota	2,285,231	878,940	360,246	1,046,045
Tennessee	45,148,972	14,649,224	16,116,570	14,383,178
Texas	102,897,813	17,535,325	16,061,087	69,301,401
Utah	4,170,503	3,126,918	360,898	682,687
Vermont	8,920,880	5,495,622	220,505	3,204,753
Virginia	39,268,212	14,645,464	7,042,272	17,580,476
Washington	44,054,536	15,825,164	14,733,805	13,495,568
West Virginia	6,267,501	2,263,114	165,041	3,839,346
Wisconsin	50,875,594	25,815,030	14,812,616	10,247,945
Wyoming	537,284	44,160	32,459	460,665
Total	1,771,253,317	553,124,157	399,360,054	818,769,106

SECTION II—CONTRACT AWARDS—BASIC DATA—1966

This section presents the basic data as compiled; combination projects have not been apportioned. Tables of contract awards by population size groups, contract size groups, drainage basins and States are included.

The population size group tables do not refer to the population served. They represent the size of the community in which each contract was awarded. The population size groups of some contracts were unknown; these contracts consist primarily of schools, hospitals, military bases, and parks. The cumulative percentages shown in these tables are based on the known population groups.

A. SEWAGE TREATMENT WORKS CONSTRUCTION

The sewage treatment works are presented in two categories, namely, NEW PLANT and OTHER. The "NEW PLANT" classification includes stabilization ponds and appurtenances. The "OTHER" category includes replacements and additions to existing treatment plants, interceptors, and outfalls. This category also includes contracts whose costs cannot be separated between "New Plant" and "Other." Therefore, the "Other" classification may include a few new plants.

In 1966 the level of contracts awarded for construction of sewage treatment works in the United States reached a level of $553.1 million. Of this amount $518.9 million covered contracts identified as to specific location and type of construction. The following tables, 5 through 8, inclusive, relate only to contracts individually identified for sewage treatment facilities.

Lists of the locations of contract awards for sewage treatment works are available upon request. Write to Director, Division of Pollution Surveillance, Federal Water Pollution Control Administration, U.S. Department of the Interior, Washington, D.C. 20242.

TABLE 5.—*Contract awards—sewage treatment works—1966—by population size groups*

Population size group	Total				New Plant				Other [1]			
	Number	Dollars	Cumulative (percent) [2]		Number	Dollars	Cumulative (percent) [2]		Number	Dollars	Cumulative (percent) [2]	
			Number	Dollars			Number	Dollars			Number	Dollars
Unknown population size	2	33,783			2	33,783						
Under 500	111	9,259,291	7.4	1.7	61	4,959,936	15.6	3.4	50	4,299,335	4.5	1.1
500-1,000	121	10,121,481	15.6	3.7	61	4,784,045	31.3	6.7	60	5,337,436	10.0	2.5
1,000-2,500	215	36,390,669	30.0	10.7	83	15,821,447	52.6	17.6	132	20,569,222	22.0	8.0
2,500-5,000	166	38,008,267	41.2	18.0	47	14,820,650	64.7	27.9	119	23,187,617	32.9	14.2
5,000-10,000	171	55,641,651	52.7	28.8	42	23,983,072	75.5	44.4	129	31,758,579	44.6	22.7
10,000-25,000	178	54,273,557	64.7	39.2	36	17,255,199	84.8	56.4	142	37,018,358	57.6	32.6
25,000-50,000	151	68,194,979	74.8	52.4	20	17,403,538	89.9	68.4	131	50,791,441	69.5	46.2
50,000-100,000	108	52,687,143	82.1	62.5	17	10,400,103	94.3	75.6	91	42,287,040	77.8	57.5
100,000-250,000	75	45,445,324	87.2	71.3	6	4,881,871	95.8	79.0	69	40,563,453	84.1	68.3
250,000 and over	190	148,794,812	100.0	100.0	16	30,315,258	100.0	100.0	174	118,479,554	100.0	100.0
Total	1,488	518,850,957			391	144,558,922			1,097	374,292,035		

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

[2] Cumulative percentages are based on the known population groups.

TABLE 6.—*Contract awards—sewage treatment works construction—1966—by contract size groups*

Contract size group (dollars)	Total				New plant				Other [1]			
	Number	Dollars	Cumulative (percent)		Number	Dollars	Cumulative (percent)		Number	Dollars	Cumulative (percent)	
			Number	Dollars			Number	Dollars			Number	Dollars
Under 10,000	79	447,147	5.3	0.1	9	53,433	2.3	0.1	70	393,714	6.3	0.1
10,000-25,000	145	2,513,898	15.0	0.5	34	572,991	10.9	0.4	111	1,940,907	16.4	0.6
25,000-50,000	205	7,390,470	28.8	1.9	68	2,527,745	28.3	2.1	137	4,862,725	28.9	1.9
50,000-100,000	259	19,191,134	46.2	5.6	76	5,557,833	47.8	6.0	183	13,633,301	45.6	5.5
100,000-250,000	340	55,616,608	69.0	16.4	87	14,162,730	70.0	15.8	253	41,453,878	68.7	16.6
250,000-500,000	213	75,161,710	83.4	30.8	53	18,825,570	83.6	28.8	160	56,336,140	83.3	31.6
500,000-1,000,000	131	90,645,538	92.2	48.3	36	25,166,932	92.8	46.2	95	65,478,606	91.9	49.1
1,000,000-5,000,000	106	203,634,206	99.3	87.6	22	38,828,372	98.4	73.1	84	164,805,834	99.6	93.2
Over 5,000,000	10	64,250,246	100.0	100.0	6	38,863,310	100.0	100.0	4	25,386,930	100.0	100.0
Total	1,488	518,850,957			391	144,558,922			1,097	374,292,035		

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

TABLE 7.—*Contract awards—sewage treatment works construction—1966—by drainage basins*

Drainage basin	Total		New plants		Other [1]	
	Number	Dollars	Number	Dollars	Number	Dollars
Northeast	164	65,555,190	27	16,677,994	137	48,877,196
North Atlantic	160	57,784,592	29	8,163,487	131	49,621,105
Southeast	179	47,095,997	55	22,240,693	124	24,855,304
Tennessee River	15	5,963,435	5	1,251,545	10	4,711,890
Ohio River	127	41,503,959	39	15,687,298	88	25,816,661
Lake Erie	21	9,579,661	5	1,105,834	16	8,473,827
Upper Mississippi	181	74,495,578	59	28,423,424	122	46,072,154
Western Great Lakes	75	42,408,063	13	2,179,264	62	40,228,799
Missouri River	148	31,943,731	48	9,844,835	100	22,098,896
Southwest-Lower Mississippi	101	28,497,937	42	10,653,298	59	17,844,639
Colorado River	16	6,294,121	5	2,817,176	11	3,476,945
Western Gulf	71	17,971,300	18	3,548,031	53	14,423,269
Pacific Northwest	75	22,282,759	15	1,214,359	60	21,068,400
California	112	53,526,184	19	12,456,067	93	41,070,117
Great Basin	29	7,831,067	7	3,592,513	22	4,238,554
Alaska	2	92,920			2	92,920
Hawaii	6	4,769,663	2	3,698,851	4	1,072,812
Puerto Rico	6	1,254,800	3	1,006,253	3	248,547
Total	1,488	518,850,957	391	144,558,922	1,097	374,292,035

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

TABLE 8.--*Contract awards—sewage treatment works construction—1966—by States*

State	Total		New plants		Other [1]	
	Numbers	Dollars	Numbers	Dollars	Numbers	Dollars
Alabama	13	3,500,476	4	2,379,711	9	1,120,765
Alaska	2	92,920			2	92,920
Arizona	7	2,822,418	2	105,660	5	2,716,758
Arkansas	26	11,055,666	7	3,022,151	19	8,033,515
California	121	55,319,058	23	13,173,252	98	42,145,806
Colorado	28	7,315,667	5	2,215,761	23	5,099,906
Connecticut	18	12,501,253	4	6,060,138	14	6,441,115
Delaware	5	4,753,262			5	4,753,262
District of Columbia	3	4,939,820			3	4,939,820
Florida	46	8,451,020	13	3,414,833	33	5,046,187
Georgia	32	8,304,472	8	2,501,382	24	5,803,090
Hawaii	6	4,769,663	2	3,696,851	4	1,072,812
Idaho	10	587,539	6	427,407	4	160,132
Illinois	92	21,478,493	26	4,309,854	66	17,168,639
Indiana	35	11,528,038	12	2,374,990	23	9,153,048
Iowa	41	9,343,607	17	1,520,311	24	7,823,296
Kansas	32	10,776,744	8	3,800,152	24	6,976,592
Kentucky	26	3,407,365	4	735,319	22	2,672,046
Louisiana	23	10,683,747	6	4,096,988	17	6,586,759
Maine	8	5,662,567	1	1,008,000	7	4,654,567
Maryland	39	8,389,411	3	723,273	36	7,666,138
Massachusetts	27	8,131,230	3	2,322,962	24	5,808,268
Michigan	46	17,606,726	11	2,033,554	35	15,573,172
Minnesota	38	12,562,746	10	1,593,213	28	10,969,533
Mississippi	9	2,944,082	4	1,285,662	5	1,658,420
Missouri	51	40,270,540	24	24,405,790	27	15,864,750
Montana	8	1,336,210	1	29,270	7	1,306,940
Nebraska	49	3,692,926	20	1,670,370	29	2,022,556
Nevada	7	5,675,245	4	4,717,204	3	958,041
New Hampshire	2	3,265,594			2	3,265,594
New Jersey	43	11,959,475	6	2,177,737	37	9,781,738
New Mexico	8	3,934,160	3	629,950	5	3,304,210
New York	73	32,988,681	12	4,436,867	61	28,551,814
North Carolina	38	10,657,085	14	4,975,972	24	5,681,113
North Dakota	11	2,126,980	5	441,441	6	1,685,539
Ohio	56	25,091,494	13	8,142,760	43	16,948,734
Oklahoma	22	2,099,429	11	398,736	11	1,700,693
Oregon	22	6,277,623	5	521,836	17	5,755,787
Pennsylvania	68	18,768,578	19	6,458,896	49	12,309,682
Puerto Rico	6	1,254,800	3	1,006,253	3	248,547
Rhode Island	7	1,098,456	1	23,631	6	1,074,825
South Carolina	29	7,560,289	12	4,195,494	17	3,364,795
South Dakota	7	868,233			7	868,233
Tennessee	21	14,376,268	7	3,108,190	14	11,268,078
Texas	67	14,379,307	19	3,396,094	48	10,983,213
Utah	18	3,126,918	2	869,640	16	2,257,278
Vermont	15	5,417,333	4	2,074,822	11	3,342,511
Virginia	43	14,148,457	9	5,086,702	34	9,061,755
Washington	39	15,164,450	4	265,116	35	14,899,334
West Virginia	7	2,176,872	4	1,795,993	3	380,879
Wisconsin	38	24,197,564	10	928,734	28	23,268,830
Wyoming						
Total	1,488	518,850,957	391	144,558,922	1,097	374,292,035

[1] Interceptors, outfalls, additions, enlargement, and alterations to plants, etc.

B. COLLECTING SEWER CONSTRUCTION

Collecting sewer construction for 1966 totaled $399.4 million. Tables 9, 10, and 11 analyze the contract award data which was specified as purely collecting sewers (i.e. $374.2 million), and do not reflect any portion of the combination projects. The tabulation of the collecting sewer contract awards by States appears in table 3 of section I.

The collecting sewer classification does *not* include storm sewers.

C. WATERWORKS CONSTRUCTION

The waterworks data are broken down into four categories, namely, SOURCE, TREATMENT, DISTRIBUTION, and MISCELLANEOUS. The "SOURCE" group includes contracts awarded for wells, surface source development, and transmission lines. The "TREATMENT" area includes contracts for plants and auxiliary facilities. The "DISTRIBUTION" category includes contracts for ground storage, elevated tanks, and distribution systems. The "MISCELLANEOUS" classification includes contracts for pumping facilities and for water systems in general. When it is not possible to code a contract that is known to pertain to water into source, treatment, or distribution then it is included in the totals for miscellaneous.

Contract awards for waterworks construction in 1966, including an apportioned amount from the combination contracts, totaled $818.8 million. The tables following refer only to contracts that pertain exclusively to waterworks (i.e., $789.7 million).

TABLE 9.—*Contract awards—collecting sewer construction—1966—by population size groups*

Population size group	Collecting sewers			
	Number	Dollars	Cumulative percent [1]	
			Number	Dollars
Unknown population size	14	912,296		
Under 500	91	6,521,828	2.4	1.7
500–1,000	83	9,170,759	4.7	4.2
1,000–2,500	224	27,589,443	10.7	11.5
2,500–5,000	265	26,636,213	17.9	18.7
5,000–10,000	424	58,696,382	29.3	34.4
10,000–25,000	621	47,638,431	46.1	47.2
25,000–50,000	416	40,130,335	57.4	57.9
50,000–100,000	369	32,888,647	67.3	66.7
100,000–250,000	366	30,123,526	77.2	74.8
250,000 and over	841	93,860,677	100.0	100.0
Total	3,714	374,168,537		

[1] Cumulative percentages are based on the known population groups.

TABLE 10.—*Contract awards—collecting sewer construction—1966—by contract size groups*

Contract size group (dollars)	Collecting sewers			
	Number	Dollars	Cumulative percent	
			Number	Dollars
Under 10,000	772	4,280,780	20.8	1.1
10,000–25,000	842	15,868,355	43.5	4.9
25,000–50,000	656	23,544,208	61.1	11.1
50,000–100,000	547	39,611,731	75.8	21.7
100,000–250,000	534	84,658,050	90.2	44.4
250,000–500,000	225	76,089,608	96.3	64.9
500,000–1,000,000	103	72,386,596	99.1	84.2
1,000,000–5,000,000	35	59,129,209	100.0	100.0
Total	3,714	374,168,537		

TABLE 11.—*Contract awards—collecting sewer construction—1966—by drainage basins*

Drainage basin	Collecting sewers		Drainage basin	Collecting sewers	
	Number	Dollars		Number	Dollars
Northeast	497	51,347,768	Colorado River	50	5,080,787
North Atlantic	464	48,419,860	Western Gulf	158	13,691,243
Southeast	240	25,582,058	Pacific Northwest	190	24,800,710
Tennessee River	28	6,378,073	California	415	33,182,089
Ohio River	350	40,352,571	Great Basin	25	1,032,207
Lake Erie	115	10,690,111	Alaska	7	555,790
Upper Mississippi	361	41,626,623	Hawaii		
Western Great Lakes	338	37,645,633	Puerto Rico	4	20,470
Missouri River	270	13,731,525			
Southwest-Lower Mississippi	207	20,031,019	Total	3,714	374,168,537

TABLE 12.—*Contract awards—waterworks construction—1966—by population size groups*

Population size group	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Unknown population size	89	5,879,045	25	594,848	1	10,782	51	4,140,783	12	1,132,632
Under 500	604	36,240,545	169	5,408,406	35	1,232,274	319	22,907,240	81	6,692,625
500–1,000	326	31,794,167	76	10,430,909	24	3,779,772	186	13,566,117	40	4,017,369
1,000–2,500	532	38,540,372	168	4,887,823	45	5,448,650	324	19,062,144	60	9,141,755
2,500–5,000	529	46,253,410	107	11,001,731	27	4,074,319	338	24,571,659	57	6,605,701
5,000–10,000	624	64,904,629	147	18,456,107	36	10,359,810	378	26,215,480	63	9,873,232
10,000–25,000	829	80,158,360	174	13,339,552	56	20,659,282	514	37,943,766	85	8,215,760
25,000–50,000	598	70,023,358	126	24,551,186	27	10,652,849	379	27,957,804	66	6,861,519
50,000–100,000	350	63,577,133	73	17,805,680	25	16,215,405	220	24,101,350	32	5,454,698
100,000–250,000	324	71,960,329	68	40,111,324	19	9,187,089	211	16,036,764	26	6,625,152
250,000 and over	870	280,330,936	142	208,346,471	23	20,670,448	662	43,065,620	43	8,248,397
Total	5,675	789,662,284	1,210	354,934,037	318	102,290,680	3,582	259,568,727	565	72,868,840

[1] This includes separate contracts for pumping facilities and other waterworks contracts that cover more than one of the above divisions.

TABLE 12A.—*Contract awards—waterworks construction—1966—by population size groups—cumulative percentages* [1]

Population size group	Total cumulative (percent)		Source cumulative (percent)		Treatment cumulative (percent)		Distribution cumulative (percent)		Miscellaneous [2] cumulative (percent)	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Unknown population size										
Under 500	10.8	4.6	14.2	1.5	11.0	1.2	9.0	8.9	14.6	9.3
500–1,000	16.6	8.6	20.6	4.4	18.6	4.9	14.3	14.2	21.8	14.9
1,000–2,500	26.1	13.5	29.3	5.8	32.8	10.2	23.4	21.7	32.7	27.6
2,500–5,000	35.6	19.4	38.3	8.9	41.3	14.2	33.0	31.3	43.0	36.8
5,000–10,000	46.8	27.7	50.8	14.1	52.6	24.3	43.7	41.6	54.4	50.6
10,000–25,000	61.6	38.0	65.4	17.9	70.3	44.5	58.3	56.4	69.8	62.0
25,000–50,000	72.3	46.9	76.1	24.8	78.8	54.9	69.0	67.4	81.7	71.6
50,000–100,000	78.6	55.0	82.2	29.8	86.7	70.8	75.2	76.8	87.5	79.2
100,000–250,000	84.4	64.2	88.0	41.2	92.7	79.7	81.2	83.1	92.2	88.5
250,000 and over	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] Cumulative percentages are based on the known population groups.
[2] This includes separate contracts for pumping facilities and other waterworks contracts that cover more than one of the above divisions.

TABLE 13.—*Contract awards—waterworks construction—1966—by contract size groups*

Contract size group (dollars)	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	1,170	6,291,156	326	1,798,615	23	139,990	763	4,057,223	58	295,328
10,000–25,000	1,307	22,050,794	318	5,176,588	52	926,994	838	14,180,921	99	1,766,291
25,000–50,000	1,030	37,027,201	170	5,943,060	50	1,730,785	704	25,301,945	106	3,962,311
50,000–100,000	885	62,789,648	139	9,757,622	42	3,068,518	592	41,965,608	112	7,997,810
100,000–250,000	779	119,350,752	107	16,875,597	66	10,678,637	487	73,592,190	119	18,204,328
250,000–500,000	278	95,584,080	64	22,300,723	26	9,691,876	141	47,552,791	47	16,038,690
500,000–1,000,000	125	83,178,566	32	22,321,784	33	21,660,556	42	27,096,864	18	12,099,362
1,000,000–5,000,000	89	166,463,194	44	90,622,945	24	37,603,534	15	25,731,995	6	12,504,720
Over 5,000,000	12	196,926,893	10	180,137,103	2	16,789,790				
Total	5,675	789,662,284	1,210	354,934,037	318	102,290,680	3,582	259,568,727	565	72,868,840

[1] This includes separate contracts for pumping facilities and other waterworks contracts that cover more than one of the above divisions.

TABLE 13A.—*Contract awards—waterworks construction—1966—by contract size groups—cumulative percentages*

Contract size group (dollars)	Total cumulative (percent)		Source cumulative (percent)		Treatment cumulative (percent)		Distribution cumulative (percent)		Miscellaneous [1] cumulative (percent)	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	20.6	0.8	26.9	0.5	7.2	0.1	21.3	1.6	10.3	0.4
10,000–25,000	43.6	3.6	53.2	2.0	23.6	1.0	44.7	7.0	27.8	2.8
25,000–50,000	61.8	8.3	67.3	3.6	30.3	2.7	64.3	16.8	46.5	8.3
50,000–100,000	77.4	16.2	78.8	6.4	52.5	5.7	80.9	33.0	66.4	19.2
100,000–250,000	91.1	31.3	87.6	11.1	73.3	16.2	94.5	61.3	87.4	44.2
250,000–500,000	96.0	43.4	92.9	17.4	81.4	25.6	98.4	79.6	95.8	66.2
500,000–1,000,000	98.2	54.0	95.5	23.7	91.8	46.8	99.6	90.1	98.9	82.8
1,000,000–5,000,000	99.8	75.1	99.2	49.2	99.4	83.6				
Over 5,000,000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] This includes separate contracts for pumping facilities and other waterworks contracts that cover more than one of the above divisions.

TABLE 14.—*Contract awards—waterworks construction—1966—by drainage basins*

Drainage basin	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Northeast	746	57,724,413	171	13,765,353	33	8,048,221	473	28,881,952	69	7,028,907
North Atlantic	495	45,234,869	111	11,424,002	19	8,471,706	321	21,154,177	44	4,184,984
Southeast	574	77,759,696	157	21,286,803	36	12,453,697	309	33,085,156	72	10,934,040
Tennessee River	72	12,158,709	4	413,744	12	4,245,384	48	6,388,820	8	1,110,561
Ohio River	557	53,614,297	71	6,912,620	33	10,793,637	408	30,774,868	45	5,133,172
Lake Erie	133	10,291,586	18	2,743,012	9	1,660,672	100	4,667,312	6	1,220,590
Upper Mississippi	480	39,064,160	145	5,610,469	43	9,879,333	286	20,076,694	36	3,497,664
Western Great Lakes	334	55,916,040	62	33,071,940	14	2,317,415	231	18,351,275	27	2,175,410
Missouri River	326	27,852,327	76	6,331,063	28	7,359,248	183	10,247,156	39	3,916,860
Southwest-Lower Mississippi	644	69,520,659	158	18,004,526	45	9,530,416	384	35,083,698	57	6,902,049
Colorado River	70	6,732,161	24	2,774,287	5	439,805	35	2,837,238	6	680,831
Western Gulf	567	56,751,170	111	27,259,398	18	5,152,894	391	17,898,548	47	6,440,330
Pacific Northwest	201	18,433,519	25	6,129,367	4	1,205,304	129	8,567,516	43	2,481,332
California	409	248,433,276	95	198,115,529	13	18,853,409	246	16,053,010	55	15,431,328
Great Basin	40	3,847,541	11	735,859	1	27,350	22	2,750,732	6	333,600
Alaska	11	2,941,900	1	356,065			5	1,188,653	5	1,397,182
Hawaii										
Puerto Rico	16	3,386,161			5	1,822,189	11	1,563,972		
Total	5,675	780,602,284	1,210	354,934,037	318	102,290,680	3,582	250,568,727	565	72,868,840

[1] This includes separate contracts for pumping facilities and other waterworks.

TABLE 15.—*Contract awards—waterworks construction—1966 by States*

State	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	71	15,355,426	19	6,039,264	5	2,832,698	40	5,472,830	7	1,010,634
Alaska	11	2,941,900	1	356,065			5	1,188,653		1,397,182
Arizona	46	4,577,497	19	2,576,753	2	179,027	21	1,653,686	4	168,031
Arkansas	83	4,673,965	18	1,424,946	6	280,595	53	2,832,046	3	136,378
California	649	252,272,004	108	198,876,123	14	18,860,759	266	18,738,755	61	15,796,367
Colorado	62	12,176,650	14	4,821,393	11	2,911,549	27	3,391,460	10	1,052,248
Connecticut	34	4,248,790	7	520,754	7	1,869,288	16	1,054,329	4	804,419
Delaware	10	611,774	2	19,540			8	592,234		
District of Columbia	7	257,846	1	60,910			6	196,936		
Florida	180	27,033,458	43	6,099,990	16	5,813,412	100	11,594,347	21	3,525,709
Georgia	95	9,871,722	27	1,503,268	8	3,212,631	48	3,939,732	12	1,216,091
Hawaii										
Idaho	7	318,770					4	66,519	3	252,251
Illinois	217	18,384,103	36	2,881,968	23	3,479,178	139	9,661,022	19	2,361,905
Indiana	104	16,948,739	17	977,512	15	6,720,095	57	6,762,853	15	2,488,169
Iowa	77	4,341,015	23	638,207	12	823,399	32	2,047,774	10	831,655
Kansas	99	7,262,261	11	1,219,524	8	600,832	70	4,186,744	10	1,255,160
Kentucky	104	15,615,804	10	2,348,816	8	1,257,836	81	11,826,437	4	182,715
Louisiana	163	23,091,247	58	7,018,774	9	2,542,441	86	11,748,621	10	781,411
Maine	12	669,843	2	20,340	1	269,000	5	294,699	4	85,804
Maryland	126	10,288,052	23	3,296,201	5	813,829	92	5,107,887	6	1,070,135
Massachusetts	198	12,237,388	61	3,498,692	6	2,112,025	104	5,395,489	27	1,231,182
Michigan	214	46,072,149	44	31,007,376	7	914,317	152	13,336,620	11	813,836
Minnesota	99	7,149,675	29	1,249,742	5	891,911	60	4,725,919	5	282,103
Mississippi	183	11,629,326	66	1,662,020	10	803,001	87	6,946,607	20	2,217,698
Missouri	188	16,115,185	52	1,199,984	17	6,246,638	100	7,250,817	19	1,417,746
Montana	15	1,377,532			1	472,472	8	464,385	6	440,675
Nebraska	65	2,257,394	15	481,481	1	25,340	46	1,288,088	3	462,485
Nevada	8	576,818	2	119,799			6	457,019		
New Hampshire	25	1,086,394	16	642,980			9	443,414		
New Jersey	166	11,321,463	45	2,387,066	13	1,014,466	86	5,590,026	22	2,329,905
New Mexico	23	1,647,514	10	504,518			10	1,069,783	3	73,213
New York	413	30,357,082	69	7,848,361	8	2,652,666	312	17,366,555	24	2,489,510
North Carolina	79	16,072,106	19	5,760,612	4	1,253,064	43	6,312,978	13	2,745,502
North Dakota	23	3,282,432	7	480,543	3	2,159,960	11	62 47	2	17,882
Ohio	302	22,052,485	48	5,241,054	15	3,822,563	222	10,434,932	17	2,553,936
Oklahoma	169	15,848,368	21	2,762,410	11	1,793,001	119	8,356,328	18	2,936,629
Oregon	66	5,160,886	8	421,162	3	470,074	38	3,216,840	17	1,052,810
Pennsylvania	247	13,411,246	47	1,862,115	10	2,068,538	173	8,599,443	17	881,150
Puerto Rico	16	3,386,161			5	1,822,189	11	1,563,972		
Rhode Island	23	3,265,509	4	1,142,875	1	312,500	16	944,427	2	865,707
South Carolina	53	5,627,506	10	1,243,842	2	595,400	33	3,165,977	8	622,287
South Dakota	16	1,036,952	3	46,246	1	26,950	10	421,762	2	541,994
Tennessee	101	14,151,368	6	950,662	8	3,973,333	77	7,935,012	10	1,292,361
Texas	581	66,621,124	114	31,358,424	21	7,868,483	398	19,850,505	48	7,543,712
Utah	6	682,687					5	547,006	1	135,681
Vermont	12	3,138,266	2	44,040			8	2,464,131	2	630,095
Virginia	86	17,158,338	13	4,583,046	6	6,378,513	53	4,279,266	14	1,917,563
Washington	127	12,934,452	17	5,708,205	1	787 30	87	5,284,157	22	856,860
West Virginia	47	3,766,104	7	285,778	3	233	30	2,960,425	7	262,668
Wisconsin	160	8,874,297	35	1,738,505	3	33	107	5,582,210	15	1,449,249
Wyoming	7	423,161	1	2,121			4	333,093	2	87,947
Total	5,675	789,662,284	1,210	354,934,037	318	102,290,680	3,582	259,368,727	565	72,868,840

[1] This includes separate contracts for pumping facilities and other waterworks.

D. COMBINATION CONSTRUCTION

Combination contracts are made up of projects that cover more than one of the three major categories: (1) Sewage treatment; (2) collecting sewers; and (3) waterworks. The combi ation contract awards by States appear in table 3 of section 1.

TABLE 16.—*Contract awards—combination construction—1966—by population size groups*

Population size group	Combinations [1]			
			Cumulative percent [2]	
	Number	Dollars	Number	Dollars
Unknown population size	4	597,879		
Under 500	36	3,343,283	3.4	3.8
500–1,000	46	4,583,453	7.8	9.0
1,000–2,500	78	5,588,243	15.3	15.3
2,500–5,000	87	12,896,935	23.6	30.0
5,000–10,000	102	11,179,150	33.4	42.7
10,000–25,000	88	9,406,928	41.8	53.4
25,000–50,000	77	5,584,436	49.2	59.7
50,000–100,000	51	5,043,862	54.1	65.5
100,000–250,000	50	7,412,031	58.9	73.9
250,000 and over	428	22,935,339	100.0	100.0
Total	1,047	88,571,539		

[1] This includes contracts whose descriptive information covers more than a single category of construction (e.g., sewage treatment, sewers, or waterworks).
[2] Cumulative percentages are based on the known population groups.

TABLE 17.—*Contract awards—combination construction—1966—by contract size groups*

Contract size group (dollars)	Combinations [1]			
			Cumulative percent	
	Number	Dollars	Number	Dollars
Under 10,000	180	1,077,701	17.2	1.2
10,000–25,000	254	4,209,892	41.5	6.0
25,000–50,000	250	8,774,925	65.3	15.9
50,000–100,000	171	11,929,226	81.7	29.3
100,000–250,000	119	18,697,639	93.0	50.5
250,000–500,000	50	16,937,026	97.8	69.6
500,000–1,000,000	14	9,748,210	99.1	80.0
1,000,000–5,000,000	9	17,684,915	100.0	100.0
Total	1,047	88,571,539		

[1] This includes contracts whose descriptive information covers more than a single category of construction (e.g., sewage treatment, sewers, or waterworks).

TABLE 18.—*Contract awards—combination construction—1966—by drainage basins*

Drainage basin	Combinations [1]		Drainage basin	Combinations [1]	
	Number	Dollars		Number	Dollars
Northeast	35	8,543,143	Colorado River	5	684,850
North Atlantic	372	17,996,800	Western Gulf	118	10,017,306
Southeast	67	8,724,804	Pacific Northwest	20	2,798,270
Tennessee River	2	1,031,278	California	16	1,534,519
Ohio River	30	8,250,387	Great Basin	3	139,671
Lake Erie	18	2,039,481	Alaska	5	519,626
Upper Mississippi	147	14,328,615	Hawaii		
Western Great Lakes	128	5,207,297	Puerto Rico		
Missouri River	34	1,624,522			
Southwest-Lower Mississippi	47	5,130,970	Total	1,047	88,571,539

[1] This includes contracts whose descriptive information covers more than one single category of construction (e.g., sewage treatment, sewers, or waterworks).

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